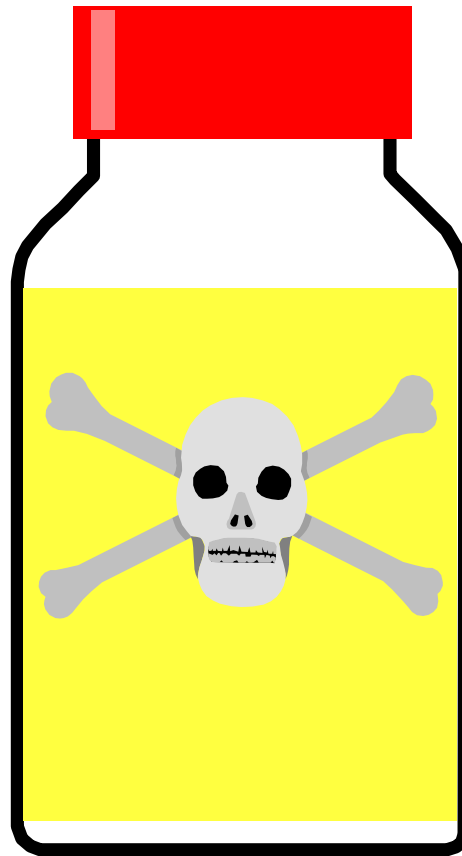


HAZARD COMMUNICATION TRAINING

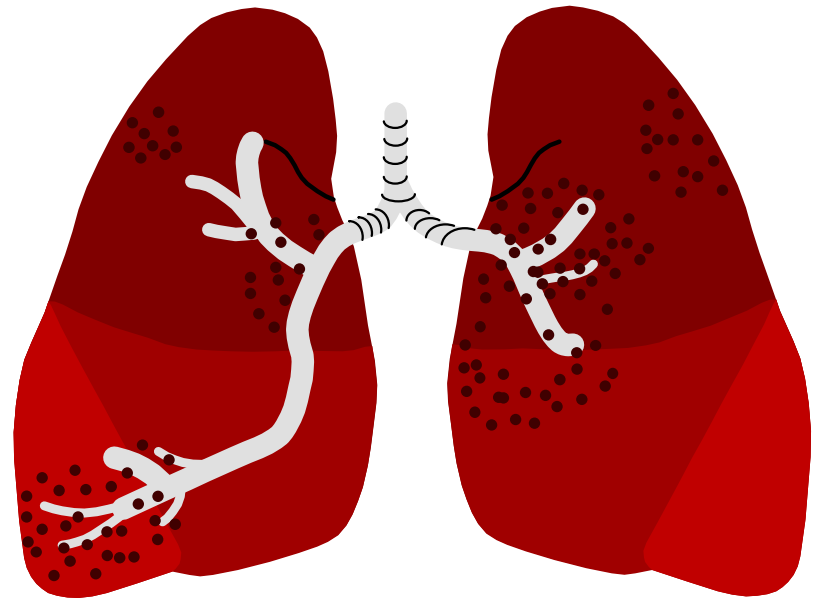


Course Outline

- **Definition of Hazardous Material**
- **Health Hazard**
- **Types of Chemicals**
- **Purpose and Application of Hazard Communication Program**
- **Material Safety Data Sheet (MSDS)**
- **Points of Contact**

HEALTH HAZARD

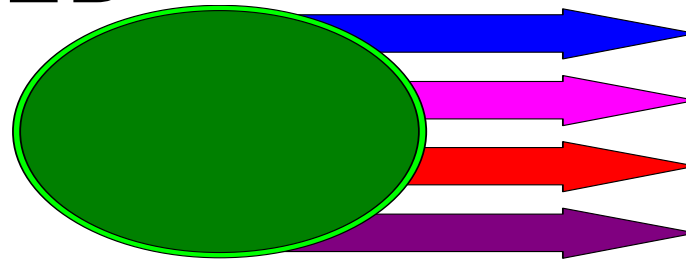
- HEALTH HAZARDS ARE THOSE WHICH MAY CAUSE MEASURABLE CHANGES IN THE BODY SUCH AS DECREASED PULMONARY FUNCTION



HEALTH HAZARD

HEALTH
HAZARDS
ARE LISTED
IN TWO
BROAD
CATEGORIES
:

● ACUTE



and

● CHRONIC

ACUTE

ACUTE EFFECTS USUALLY
OCCUR RAPIDLY AS A
RESULT OF “SHORT
TERM” EXPOSURE AND
ARE OF SHORT
DURATION

CHRONIC

CHRONIC EFFECTS
GENERALLY OCCUR AS A
RESULT OF “LONG TERM”
EXPOSURE AND ARE OF A
LONG DURATION

HEALTH HAZARD

- In addition to the aforementioned definition of ACUTE and CHRONIC the following pages also fall into the category of HEALTH HAZARD



CARCINOGEN

A carcinogen is a chemical that **causes cancer** in humans or has the potential to cause cancer (found to cause cancer in laboratory animals)

CORROSIVE

A corrosive chemical is one that causes visible destruction of or IRREVERSIBLE alterations in living tissue by chemical action at the site of contact

HIGHLY TOXIC

A chemical which has the median lethal dose of:

- 50 mg per kg when administered orally
- 200 mg per kg by continuous contact for 24 hrs

A chemical which has the median lethal concentration of:

- 200 parts per mil of gas or vapor or 2 mg per L of mist, fume or dust when continuously inhaled for one hour

***IN THE ABOVE DESCRIPTIONS DEATH OCCURS
WITHIN THE TIME FRAME DESCRIBED IN
LABORATORY ANIMALS***

IRRITANT

An irritant chemical is one which is not corrosive but which causes a REVERSIBLE inflammatory effect on living tissue by chemical action at the site of contact

SENSITIZER

A chemical which causes a substantial portion of exposed people to develop an allergic reaction in normal tissue after repeated exposure to the chemical

DEFINITION OF A HAZARDOUS WASTE

ANY HAZARDOUS LIQUID, SOLID OR GASEOUS MATERIAL WHICH IS NO LONGER USABLE FOR ITS ORIGINAL INTENDED PURPOSE OR WHICH HAS BEEN CONTAMINATED BY A FOREIGN SUBSTANCE.

PURPOSE AND APPLICATION

Hazard Communication Program to include:

- Labels and other forms of warning
- Material Safety Data Sheets
- Training
- Providing employees with a list of the hazardous chemicals in the workplace
- Informing employees of non-routine tasks
- Informing other employees and contractors

Purpose of HazCom Program


- **IDENTIFY AND EVALUATE HAZARDS
IN THE WORKPLACE**
- **COMMUNICATE INFORMATION TO
EMPLOYEES**

Application of HazCom Program

- **THIS APPLIES TO CHEMICAL MANUFACTURERS**
- **ALL EMPLOYERS WITH 10 OR MORE EMPLOYEES**
- **ALL DISTRIBUTORS**

WRITTEN HAZCOM PROGRAM MUST INCLUDE:

- LABELS AND
OTHER
FORMS OF
WARNING



This is a
hazardous
material

DANGER

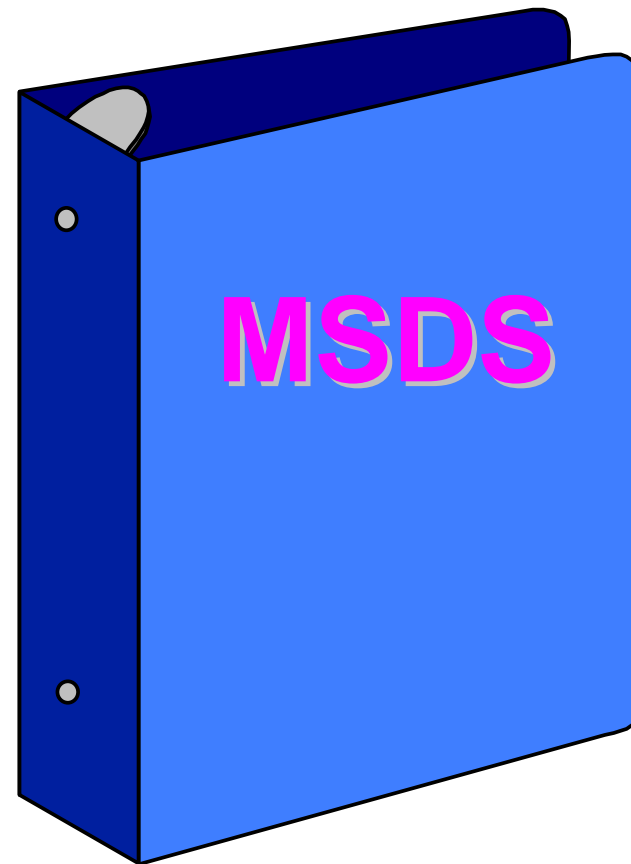
Labels

CHECK ALL LABELS, THEY SHALL INCLUDE THE FOLLOWING INFORMATION:

- 1. NAME & ADDRESS OF CHEMICAL MANUFACTURER OR DISTRIBUTOR**
- 2. IDENTITY OF HAZARDOUS CHEMICALS AS PER SARA TITLE 313**
- 3. APPROPRIATE HAZARD WARNINGS:**
DANGER, WARNING, CAUTION

WRITTEN HAZCOM PROGRAM MUST INCLUDE:

- MATERIAL
SAFETY
DATA
SHEETS
(MSDSs)



MSDS

- The **MSDS** shall be unique to the chemical and manufacturer's name and phone number
- The **MSDS** must be available and accessible to employees during each work shift. The **MSDSs** may be kept in a central location at the primary workplace

MSDS

- Physical Data
- Fire and Explosion Data
- Reactivity Data
- Health Hazard Information
- Spill, Leak, and Disposal Procedures
- Special Protection Information (PPE)
- Special Precautions and Comments

Hazard Communication Points of Contact

Hazard Communication Point of Contact:

Rhonda Carpenter – Regional Safety Manager

303-497-3912

Rhonda.S.Carpenter@noaa.gov

Additional Information available on the MASC Website

http://www.masc.noaa.gov/masc/fld/fld_safe.html